

# TIMELINEZ

VOLUME 5 ISSUE 3

MARCH 1987

\$1.00

THE JOINT NEWSLETTER OF THE THREE TIMEX-SINCLAIR  
USER GROUPS IN THE SAN FRANCISCO BAY AREA  
\*\* EBZUG PUG SVSTUG \*\*

## QL BANNER by Tim Swenson

This is a little neatsy-keen program that I originally wrote years ago, on the ZX81.

The user types up to 10 strings of up to 80 characters each. The strings are then slowly "marched" across the screen, very much like the signs on Bart. The letters start on the right and scroll off to the left.

The screen that is used to show the banner can be fancied up a bit. Playing around with the stipple of the strips can be fun.

So, here it is. Have fun with it. It might come in handy someday.

```
100 WINDOW 512,256,0,0 : PAPER 0
: INK 4
110 DIM a$(10,80)
120 clear_data
130 set_screen2
140 get_all
150 set_screen1
160 REPEAT loop
170 FOR x = 1 TO 10
180 IF LEN(a$(x)) < 2 THEN NEXT
x
190 LET length = LEN(a$(x))
200 LET start_s=1 : LET
last_s=1
210 FOR y= 1 TO LEN(a$(x))+32
220 PAUSE 10
230 LET key=KEYROW(0)
240 f_key
250 IF key<>0 THEN GO TO 160
260 LET start_at = 32-y
270 IF y>32 THEN start_at=0
280 LET x$a$(x)&" "
290 AT 4,start_at : PRINT
x$(start_s TO last_s)
```

(continued on back page)

\*\*\*\*\*

## SPECIAL BAY AREA JOINT MEETING

BE THERE THE IDES OF MARCH

\*\*\*\*\*

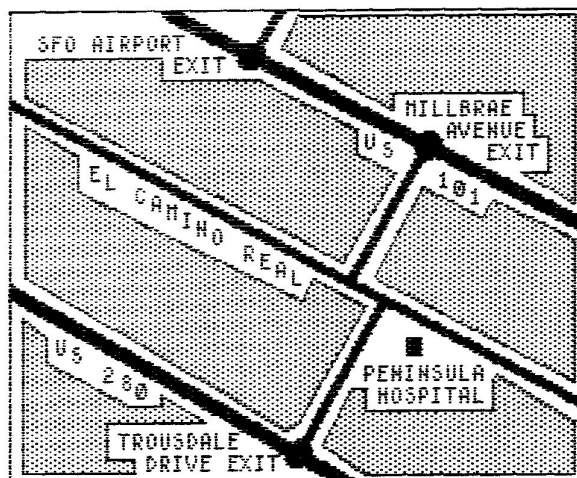
ON SUNDAY, MARCH 15, AT 1 PM, THERE  
WILL BE A JOINT MEETING OF ALL THREE  
OF THE BAY AREA T/S USER GROUPS AT  
THE PENINSULA HOSPITAL IN BURLINGAME  
(1783 EL CAMINO REAL).

AS SPECIAL ATTRACTIONS, TWO PRESENTA-  
TIONS HAVE BEEN SCHEDULED:

- (1) PAT MORRISSEY WILL DEMONSTRATE  
HIS INTEGRATED PERIPHERAL SYS-  
TEM FOR THE T/S 2068; AND
- (2) BOB ORRFELT WILL DEMONSTRATE  
HIS REPLACEMENT 2068 ROM WITH  
BUG CORRECTIONS AND WITH ADDED  
NEW FEATURES.

MARK YOUR CALENDAR!!!

\*\*\*\*\*



### SIDEWAYS PRINTING

From the Jan. '87  
T/5 N/L in Ohio.

Eric Yruegas  
4706 Langley Ave.  
Whitehall, OH 43213-3124

The program will turn your character set in the 2068 sideways. If you have the 2040 printer, this program can be used to print spreadsheets sideways (allowing WIDE columns!). Someone might want to write a utility to print word-processor files sideways. You could have a margin of any number! Just tape the strips together and you have a letter.

Well, here is the program, in it's entirety:

```
2 REM TO GET CHAR. SET, TYPE POKE 23606,244:POKE 23607,250
7 DIM A$(8,B): DIM B$(8,B)
10 LET C=PEEK 23606+256*PEEK 23607+256
12 FOR J=33 TO 128
20 FOR P=0 TO 7
25 LET BYTE=PEEK (C+P+(J-32)*8)
27 LET Z$=""
35 FOR L=1 TO 8
40 LET X=INT (BYTE/2):LET BIT=BYTE-2*X:LET BYTE=X:LET
Z$(LEN Z$-L+1)=STR$(BIT)
50 NEXT L:LET A$(P+1)=Z$:NEXT P
70 FOR F=1 TO 8:FOR N=1 TO 8:LET B$(N,F)=A$(9-F,N):NEXT
N:NEXT F
80 FOR P=0 TO 7
85 LET Z$=B$(P+1)
90 LET Q=128*(Z$(1)="1")+64*(Z$(2)="1")+32*(Z$(3)="1")+
16*(Z$(4)="1")+8*(Z$(5)="1")+4*(Z$(6)="1")+2*(Z$(7)="1")+
(Z$(8)=1)
100 POKE (64500+F+(J-32)*8),Q
170 NEXT P:NEXT J
```

There it is. And it works. This program is not all that fast. But guess what! I have a MACHINE CODE replacement for the above program! Actually, I cheated and used TIMACHINE on it, and it now breezes through the character set in about 1/3 the time. However, the machine code is exactly 1K (1024 bytes!), and is kind of long to print here. If you like, send me a request for the code on tape or disc (AERCO DS/DD only, please!), and I can zip it out to you. I also can make the disassembly available. Just ask!

### SINCLAIR INTRODUCES NEW COMPUTER (Here we go again)

From the San Francisco Chronicle  
February 18, 1987

In England, meanwhile, the well-known inventor of the Sinclair computer introduced what he claimed was the world's smallest laptop. Sinclair said his \$350 288 weighs less than two pounds, measures 11 1/4 by 8 1/4 inches, and has a memory capable of storing Shakespeare's complete works. It also is IBM-compatible.

From the Feb. '87  
Detroit Area T/5 News

### 2068 HEADERS

Here is a partial list of tape headers for 2068 programs. This listing may be useful to those converting cassette based software to disk.

```
$Chess by Psion: Save "chess" line 10
                  Save "s" Code 16384,6912
                  Save "chess" Code 34816,10977

$Vu-File:         Save "vufile" Line 50
                  Save "t" Code 16384,6912
                  Save "c" Code 28288,7216

$Vu-Calc:         Save "vcalc" line 1
                  Save "vc" Code 29328,5225

$Vu-3D:           Save "vu3d" line 1
                  Save "vu-3d" line 9
                  Save "s" Code 16384,6912
                  Save "vu-3d" Code 30720,34815

$Oliger Print     Save "oli" line 10
Driver            Save "prcd" Code 23296,256

$Z-Print 80:      Save "customize" line 100
                  Save "zprnt-lo"code 64000,1300

$Zeus Monitor:    Save "mon" line 1
                  Save "a" code 61186,4040

$Zeus Assembler: Save "zeus" line 1
                  Save "zeus" code 57344,7936
```

From the Jan/Feb '87 Sinc Link.

### HOW TO DISABLE THE "MERGE" FUNCTION

The simplest way to prevent anyone "merging" your program is to save your program as code. When you want to SAVE your program use the following method:

```
LET p=(PEEK 23637 + (256 * PEEK 23638) - 23551)
Next line : SAVE "prog name" CODE 23552,p
Next line: RUN
```

The only thing that changes now is that your program has to be loaded as CODE. When the program is loaded the computer's BASIC INTERPRETER will continue with the program straight after the SAVE command.

## MODIFICATION

TO MULTI-TASKING Article in the February '87 issue of this newsletter.

It has been brought to my attention by Bill Pederson of Grand Rapids, Michigan that the SCLD chip does indeed place a number on the bus during an interrupt. The program as shown does work, but does go through the unnecessary task of setting up a 257 byte interrupt table, when only two bytes are needed. As my notes were not clear from our late night conversation; the next day I determined that the SCLD put a 255 on the bus (I POKED the other bytes to 0). This means that only the last two bytes of the table were needed. This in turn means that any interrupt service address could be placed there, giving you much more flexibility of where you put your service routine.

These additional recommendations are made. DO NOT use the STRMS system variables area for the vector table, it could cause operating conflicts. Bill suggested that interrupts should be disabled using BIT 6 of port 255 before

initializing IM2 and changing the value of the I register. He said it is also necessary to put one NOP after the IM2 instruction and six NOP's after the LD I,A instruction; I do not know why. Be sure to enable BIT 6 of Port 255 when you are done.

Bill also recommended the last instruction should be RETI instead of JP 56. Change the last instruction to CALL 56 and then add RETI. This is the proper Z80 requirement which notifies the interrupting device that the interrupt request has been serviced. It also resets the interrupt flip-flops.

I would like to hear from all of you who attempted and/or succeeded at using IM2. If anyone sends me a SASE I'll send an assembly code listing of the CLOCK/CALENDAR routine that the February listing CALLED. I would like to know what tasks you are having it run. Windows? Error condition checking? ? ? Send me a listing, please. FRED TEMPLETON

520 Northbrook Ct.  
Antioch, CA 94509

## SOME QL TIPS

I am a member of the QZX ham radio Timex-Sinclair net and newsletter. I learned about Timelinez "on the air" from two of our members in the Bay Area. I think Dar Thompson attends some of the meetings of one of the groups. We both have all the Sinclair computers through the QL in multiples. The QL is a very interesting computer and will be fun to learn.

Here are some POKES for it that were sent to me by my friend that runs a French language TSUG in Montreal. So credit Real Gagnon for these QL pokes if you want to publish them:

```
POKE W 163976,255
POKE W 163976,0
POKE W 163891,1
POKE 98403,2
POKE 98403,0
POKE 98403,64
POKE 98403,8

Caps ON
Caps OFF
Freeze the screen
Blank the screen
Un-blank the screen
Try it!
Try it!
```

To disable BREAK use POKE\_L 163900,0

I had mentioned to him the article in the latest ZX COMPUTING MONTHLY on the undocumented WHEN ERROR command and he came back with:

Beware of WHEN ERROR....END WHEN as it is BUGGED. The error flag is never reset.

To use it safely, you must have the QJUMP SUPER TOOLKIT II eeprom. However it's a good idea to use the command like this:

```
10 REMark TIPS for the QL
20 WHEN ERROR : REPORT : EDIT ERLIN : STOP : END WHEN
```

When you write a program and you make a mistake, the BAD LINE will be ready to be EDITed.

73

D.L. Howard

WAGGON

750 North Yuleton Avenue  
West Covina, CA 91790

## MAILING LABELMAKER

by Walt Gaby

THIS PROGRAM PRINTS MAILING LABELS ON A FULL-SIZE PRINTER. THE MENU OFFERS FOUR OPTIONS:

- \* SUPPLY OF RETURN LABELS
- \* LABELS FOR ALL NAMES  
IN ADDRESS BOOK
- \* LABELS FOR SELECTED NAMES  
IN ADDRESS BOOK
- \* LABELS FOR ADDRESS DATA  
PROVIDED BY INPUT

THE PROGRAM ASSUMES USE OF STANDARD 3 1/2" x 15/16" LABELS.

THE MENU ALSO ALLOWS FOR THE SELECTION OF FOUR FONTS:

- \* REGULAR (DEFAULT)
- \* ENLARGED
- \* CONDENSED
- \* COMBINED ENLRGD/CONDNSD

IN ADDITION, DOUBLESTRIKE MODE IS AVAILABLE WHEN USING AN OLD RIBBON.

THE "ADDRESS BOOK" IS KEPT IN DATA LINES. OTHER FIELDS CAN BE ADDED TO EACH DATA LINE TO MAINTAIN AN EXTENDED "RECORD" ON EACH PERSON ...SUCH AS TELEPHONE NUMBERS AND IMPORTANT DATES.

SELECTING "ALL MAILING LABELS" WITH REGULAR PAPER IN THE PRINTER WILL PROVIDE THE USER WITH A HARDCOPY OF ALL ADDRESSES. ADDING "REM" TO LINE 830 AND REMOVING IT FROM LINE 835 WILL GENERATE A HARDCOPY OF ALL DATA FOR ALL RECORDS.

SIMILARLY, BY ADDING "REM" TO LINE 970 AND REMOVING IT FROM LINE 975, A HARDCOPY OF THE ENTIRE FILE CAN BE PRINTED ON REGULAR PAPER FOR SELECTED NAMES AND ADDRESSES.

OF COURSE, THE CODE NUMBERS USED IN LINES 110 THROUGH 610 MUST BE IN CONFORMITY WITH THE RELEVANT CODE NUMBERS EXPECTED BY YOUR PRINTER FOR THE FONTS DESIRED.

```

10 REM *****
12 REM * LABELMAKER PROGRAM *
14 REM * Walt Gaby, TSUNAMI *
16 REM * December, 1986 *
18 REM *****
20 REM
30 CLS : RESTORE
32 PRINT "#####
#####"
34 PRINT " L A B E L M A K E
R M E N U"
36 PRINT "#####
#####"
38 PRINT "INITIALIZE FONT"
40 PRINT "=====
42 PRINT " 1 ENLARGED LETTERIN
G ON"
44 PRINT " 2 ENLARGED LETTERIN
G OFF"
46 PRINT " 3 CONDENSED LETTERI
NG ON"
48 PRINT " 4 CONDENSED LETTERI
NG OFF"
50 PRINT " 5 DOUBLESTRIKE MODE
ON"
52 PRINT " 6 DOUBLESTRIKE MODE
OFF"
54 PRINT "SELECT PRINTING CHOI
CE"
56 PRINT "=====
=="
58 PRINT " 7 PRINT SUPPLY OF R
ETURN LABELS"
60 PRINT " 8 PRINT ALL MAILING
LABELS"
62 PRINT " 9 PRINT SELECTED MA
ILING LABELS"
64 PRINT "10 PRINT LABELS FROM
INPUT"
66 PRINT "#####
#####"
68 INPUT "ENTER NUMBER: ";X
70 IF X<1 OR X>10 THEN GO TO
68
90 GO TO X*100
99 REM

```



```

100 REM ** ENLARGED LTTRNG ON
105 REM #####
110 LPRINT CHR$ 27; CHR$ 27; C
HR$ 87; CHR$ 27; CHR$ 1; CLS : G
O TO 30
199 REM
200 REM ** ENLARGED LTTRNG OFF
205 REM #####
210 LPRINT CHR$ 27; CHR$ 27; C
HR$ 87; CHR$ 27; CHR$ 0; CLS : G
O TO 30
299 REM
300 REM ** CONDENSED LTTRNG ON
305 REM #####
310 LPRINT CHR$ 27; CHR$ 15; C
LS : GO TO 30
399 REM
400 REM ** CONDENSED LTTRNG OFF
405 REM #####
410 LPRINT CHR$ 27; CHR$ 18; C
LS : GO TO 30
499 REM
500 REM ** DOUBLSTRIKE MODE ON
505 REM #####
510 LPRINT CHR$ 27; CHR$ 27; C
HR$ 71; CLS : GO TO 30
599 REM
600 REM ** DOUBLSTRIKE MODE OFF
605 REM #####
610 LPRINT CHR$ 27; CHR$ 27; C
HR$ 72; CLS : GO TO 30
699 REM
700 REM ** RETURN ADDRESS LABEL
705 REM #####
710 CLS
720 INPUT "NUMBER OF LABELS? ";
N
730 FOR Z=1 TO N
740 LPRINT "(Your Name)"
750 LPRINT "(Your Street Address)"
760 LPRINT "(Your City and ZIP)"
770 LPRINT ""
780 NEXT Z
790 GO TO 30
799 REM
800 REM ** PRINT ALL LABELS
805 REM #####
810 READ A$,B$,C$,D$,E$
820 IF A$="END" THEN GO TO 30
830 LPRINT A$'B$'C$''''
835 REM LPRINT A$'B$'C$''D$'E$
''''
840 GO TO 810
899 REM

```

```

900 REM * PRINT SELECTED LABELS
905 REM * #####
910 READ A$,B$,C$,D$,E$
920 IF A$="END" THEN GO TO 30
930 CLS
940 PRINT A$'B$'C$''D$'E$
945 PRINT AT 10,3;"ENTER "X"
TO RETURN TO MENU"
950 INPUT "PRINT LABEL FOR THIS
NAME? ";Y$
955 IF Y$="X" OR Y$="x" THEN G
O TO 30
960 IF Y$="N" OR Y$="n" THEN G
O TO 910
970 LPRINT A$'B$'C$''''
975 REM LPRINT A$'B$'C$''D$'E$
''''
980 GO TO 910
999 REM
1000 REM ** NAMES FROM INPUT
1005 REM #####
1010 CLS : PRINT "ENTER ADDRESS
DATA BELOW"
1015 PRINT AT 10,3;"ENTER "X"
TO RETURN TO MENU"
1020 INPUT "NAME? ";A$
1030 IF A$="X" OR A$="x" THEN G
O TO 30
1040 INPUT "STREET ADDRESS? ";B$
1050 INPUT "CITY and ZIP? ";C$
1060 LPRINT A$'B$'C$''''
1070 GO TO 1020
1099 REM
2000 REM ** NAME/ADDRESS DATA
2005 REM #####
2010 DATA "JOHN DOE","123 FOURTH
STREET","FRESNO, CALIF 94666","
WORK: (818) 123-4567","HOME: (81
8) 765-4321
(WIFE'S NAME IS JANE)"
2020 DATA "JOE SMITH","456 FIFTH
STREET","EL PASO, TEXAS 87654",
"WORK: (333) 234-5678","HOME: (3
33) 876-5432"
2030 DATA "MARY JONES","789 MAIN
STREET","SAN FRANCISCO, CALIF 9
4111","WORK: 345-6789","HOME: 98
7-6543 (CALL AFTER 8 PM)"
2998 DATA "END","END","END","END
","END"
2999 REM *** USE DATA STATEMENTS
FOR ALL ADDRESSES THAT YOU WISH
TO STORE IN THE PROGRAM ***

```

## SVSTUG NEWS

by Bill Miller

### 1. Upcoming meetings:

1.1 Every Saturday morning, 9:00 A.M., Stanford University, Jordan Hall (in the Quadrangle), Math building (Number 380) in room 380C (downstairs). For topic, check the PDSE (Public Domain Software Exchange) BBS in Sunnyvale at 408 735-7390, 300/1200, 8, N, 1, 24HRS, 32 lines (no waiting!).

Dave Jones reports the PDSE BBS in San Mateo is available now at 415 571-6911, 300/1200, 8, N, 1, 24HRS, 8 lines (hardly any waiting!).

Lets get registered on these BBS's so we can have TS S16's on them. All we need is 10 registered users for each S16!

1.2 March 15, Sunday, 1:00 P.M., Peninsula Hospital, Burlingame (at the corner of El Camino and Trousdale), Sierra meeting room (in basement).

1.3 April 19, Sunday, 1:00 P.M., Peninsula Hospital.

1.4 May 17, Sunday, 1:00 P.M., Peninsula Hospital.

2. BUTS/SV meeting news of 870127 (Thanks to Natalie Wahl).

The meeting was well attended. Topics covered (thanks to Sy Stein for suggesting a little organization for our usually disorganized meetings) were: 1. Schedule, 2. Topics, 3. Video, 4. SinLink, 5. TS2040 needed, and 6. New meeting places.

2.1 To encourage attendance at future meetings, we thought it might be a good idea to schedule themes (or 'Topics') for our future meetings, therefore:

2.2 Future proposed topics are:

2.2.1 March-

2.2.1.1 Bob Orffelt on Video Mode Corrections and Using the cartridge port with advanced video modes.

2.2.1.2 Pat Morrissey on various hardware projects.

2.2.2 April- TS1000/ Aerco Disk demo by Terry Greenlee. This might be a good opportunity for everyone to demo various TS mass storage devices. Clark Cawkins is rumored to have written a 'CP/M like' operating system for the A&J/ TS1000 Microdrive. If you're interested leave Clark a message on the PDSE BBS c/o Bob Howell or contact Bill Miller.

2.2.3 May- Steve Nichols volunteered to demo his software for the TS1000. Maybe we could turn this into a general software demo meeting. If you have a favorite program, plan on bringing it to demo.

2.2.4 June- Sy Stein volunteered to demo his TS1000/ control project. If you have a TS control project of your own, plan to bring it to demo.

2.3 Video- We plan to video tape these meetings. Thanks to Walt Johnson and Don Moser for volunteering thier services for the video taping. The object is to tape short demo segments of the meeting for the purpose of:

2.3.1 Meeting Records (minutes).

2.3.2 Provide to TS Computerfests (such as the 2nd annual Midwest) for showing at the Computerfest.

2.3.3 Video Tape exchange with other clubs. It will be sort of like the newsletter exchange, only with color and sound.

2.4 SinLink- This is the first issue of SinLink (separate from TIMELINEZ) since July 1985. Some new members have probably never seen it. SinLink is the name of the original publication of BUTS/SV which was first published in April, 1982. Back issues of TIMELINEZ/ SinLink are available. Contact Bill Miller for Index and details.

2.5 Sy Stein is looking for a TS2040 printer cheap. Even less than \$37.48. Knighted Computers seems to have the record for low priced TS2040's. Can anybody beat \$37.48? As Vancouver Sinclair Users Group President Ken Abraonson says 'We don't just talk cheap, we are cheap'!

2.6 New meeting places- BUTS/SV is still looking for a permanent meeting place of it's own for the last Wednesday of the month:

2.6.1 Oliver Chaplin investigated the San Jose Library. It costs \$15 and the parking is a little limited. We have ruled it out for now, but we will keep it in mind. Thanks to Oliver for checking it out.

2.6.2 Sy Stein suggested the Foothill College Electronics Museum. Sy will report back on it's availability.

2.6.3 Terry Greenlee suggested a church he is aquainted with in Alviso. Terry will check into it's availability.

2.6.4 Ron Hruby called on 870202 to report the possible availability of rooms in Lockheed buildings 157 or 583. Ron will check into it and report back.

3. Welcome to new member Cleopatra Rosioreanu in New York. Cleo subscribes for her 14 year old son Alexandru who has a TS2068 in Romania. Cleo forwards the newsletter to him. Maybe Alexandru will write us a report on TS user groups in Romania.

## EBZUG NEWS

by Fred Templeton

### REPORT ON MEETING OF FEBRUARY 26, 1987

The meeting was attended by 15 stalwart "Sir Clive" fans as follows: Russ English, Warren Tucker, Darwin Thompson, Woody McPheeters, Ivor Alma, Bill Miller, John Ezike, Matt Moore, Kevin Zimmerman, Bill Strick, David Gray, Alvin Lam, Kirk Adams, Fred Templeton, and Bob Woodic.

Discussion picked up where it left off last month regarding our meeting room. Bill Miller was contacted by the librarian and after thier meeting it seems that we may be able to use the library for a meeting on April 16th (third Thursday night in April). Woody McPheeters is submitting a formal application. Hopefully this will be confirmed by the March meeting. John Ezike has done a lot of checking on alternate locations and presented us with several choices, each of which has its own conditions. Good work John!

The March meeting is confirmed as a joint PUG, EBZUG, and SVSTUG meeting on the 15th (Sunday at 1:00). A map is hopefully somewhere in this addition of **TIMELINEZ**. Contact Bill Strick 522-3811 for carpooling from his place at 1328 Broadway, Alameda.

West Coast Computer Fair - contact Rick Link 234-3310 for group rate tickets or information.

Darwin Thompson brought to our attention that American Design Components, 62 Joseph Street, Moonachie, N.J. 07074 is selling a Timex 1000 clone (model PC8300) for \$29.95 and 16K Rampack for \$10.00 plus S&H. He spotted this on page 273 of the March '87 issue of BYTE. The unit is described as a 42-key mechanical keyboard with 2K RAM running a Z80A at 6.5 MHz, sound, and can be used with TV or monitor.

David Gray has become expert at downloading RLE graphic pictures. He is in the process of writing RLE software for some other computers (IBM, Apple, Atari, etc.), anyone interested should contact him at (415) 754-2054.

I need some more **HELP**. I have been attempting to connect two computers on the same desk (each has it own modem) by plugging a standard phone cord between them. So far I haven't been able to get it to work. Does anyone have any suggestions. (415) 754-5575 or 520 Northbrook Ct. Antioch, CA 94509.

Russ English reported that his car was broken into during the meeting. It would be wise for all of us not to leave any valuables in our cars during the meetings.

\*\*\*\*\*  
COMPUTER CALENDAR  
\*\*\*\*\*

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M A R C H  
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15 JOINT MEETING  
ALL USER GROUPS  
Peninsula Hospital  
Sierra Room (Basement)  
1783 El Camino Real 1:00

21 BAY AREA COMPUTER SWAP  
Cow Palace  
San Francisco 10 a.m. - 5 p.m.

26- 12th WEST COAST COMPUTER FAIRE  
29 Moscone Center  
San Francisco

28 COMPUTER SWAP AMERICA  
Marie Campbell Pavilion  
Santa Clara County Fairgrounds  
San Jose 10 a.m. - 6 p.m.

-----  
A P R I L  
-----

16 EAST BAY USER GROUP 7:30  
(3rd Thursday)

19 PENINSULA USER GROUP 1:00

19 SILICON VALLEY USER GROUP 1:00  
(with PUG)

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\*\*\* USER GROUP IN SACRAMENTO \*\*\*  
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G U T S GROUP USING TIMEX SINCLAIR  
\*\*\*\*\*

CONTACT: JAMES GRIFFIS  
(916) 783-0919

MEETINGS: SECOND WEDNESDAY OF EACH MONTH, 7:00 P.M.  
SINUD BUILDING  
59th STREET (between Folsom and S)  
SACRAMENTO

E B Z U G EAST BAY Z80 USER GROUP  
\*\*\*\*\* 3128 KING STREET  
BERKELEY, CALIFORNIA 94703  
(Woody McPheeter's)

CONTACT: RUSS ENGLISH (415) 465-3116

MEETINGS: FOURTH THURSDAY OF EACH MONTH, 7:30 P.M.  
WEST BRANCH LIBRARY  
1125 UNIVERSITY AVENUE, BERKELEY

MAKE CHECK FOR DUES PAYABLE TO "WOODY MCPHEETERS".

P U G PENINSULA USER GROUP  
\*\*\*\*\* 311 MICHELLE LANE  
DALY CITY, CALIFORNIA 94015  
(415) 878-1773

PRESIDENT: GEORGE HOCKRIDGE

MEETINGS: THIRD SUNDAY OF EACH MONTH, 1:00 P.M.  
PENINSULA HOSPITAL  
1783 EL CAMINO REAL, BURLINGAME

MAIL DUES TO "PAT MORRISSEY", 2000 CRYSTAL SPRINGS ROAD,  
BLDG 21, APT 22, SAN BRUNO, CA 94066

S V S T U G SILICON VALLEY SINCLAIR TECHNOLOGY USER GROUP  
\*\*\*\*\* 6675 CLIFFORD DRIVE  
CUPERTINO, CALIFORNIA 95014  
(408) 253-3175

PRESIDENT: RITA CARR, (408) 738-2888, X-4579

MEETINGS: LAST TUESDAY OF EACH MONTH, 7:00 P.M.  
(FOR LOCATION OF MEETINGS, SEE ACCOMPANYING  
CALENDAR AND SVSTUG NEWS.)

MAKE CHECK FOR DUES PAYABLE TO "SINCLINK".

THIS TIMELINEZ NEWSLETTER IS A JOINT PUBLICATION OF THE THREE  
TIMEX-SINCLAIR USER GROUPS IN THE SAN FRANCISCO BAY AREA.

NEW MEMBERS AND VISITORS ARE ALWAYS WELCOME.

FOR FULL MEMBERSHIP (WHICH INCLUDES PARTICIPATION IN GROUP  
MEETINGS, THE TIMELINEZ NEWSLETTER, TAPE LIBRARY PRIVILEGES,  
AND SPECIAL EVENTS), SEND \$15 ANNUAL DUES TO ONE OF THE ABOVE  
ADDRESSES WITH THE CHECK MADE PAYABLE AS INDICATED.

FOR JUST AN ANNUAL SUBSCRIPTION TO THE NEWSLETTER, SEND A \$10  
CHECK TO ONE OF THE ABOVE GROUPS.

```

300 LET last_s = last_s +1
310 IF y>31 THEN LET start_s
= start_s +1
320 NEXT y
330 AT 4,0: PRINT " "
340 NEXT x
350 END REPEAT loop
360 DEFINE PROCEDURE f_key
370 SELECT ON key
380 ON key = 2
390 set_screen2
400 get_string
410 set_screen1
420 ON key = 8
430 clear_data
440 set_screen2
450 get_all
460 ON key = 16
470 set_screen2
480 EXIT loop
490 set_screen1
500 STOP
510 END SELECT
520 END DEFINE f_key
530 DEFINE PROCEDURE set_screen1
540 MODE 8 : WINDOW 512,256,0,0
550 PAPER 0 : INK 4 : CLS
560 CSIZE 3,1
570 STRIP 1 : AT 2,0: PRINT "
"
580 STRIP 1 : AT 6,0: PRINT "
"
590 STRIP 4 : AT 1,0: PRINT "
"
600 STRIP 4 : AT 7,0: PRINT "
"
610 STRIP 3 : AT 0,0: PRINT "
"
620 STRIP 3 : AT 8,0: PRINT "
"

630 STRIP 0
640 END DEFINE set_screen1
650 DEFINE PROCEDURE set_screen2
660 MODE 4 : CSIZE 0,0
670 CLS
680 END DEFINE set_screen2
690 DEFINE PROCEDURE clear_data
700 FOR x = 1 TO 10
710 a$(x) = " "
720 NEXT x
730 END DEFINE clear_data
740 DEFINE PROCEDURE get_string
750 PRINT "Enter String Number
to Re-enter "
760 INPUT x
770 PRINT : PRINT "Enter New
String Message "
780 INPUT x$
790 LET a$(x) = x$
800 PRINT : PRINT "Do You Want
To Do Another? (Y/N)"
810 INPUT x$
820 IF x$="y" OR x$="Y" THEN
GO TO 750
830 CLS
840 END DEFINE get_string
850 DEFINE PROCEDURE get_all
860 PRINT "How Many Message
Strings Do You Want To Enter?"
870 INPUT y
880 PRINT
890 FOR x = 1 TO y
900 PRINT "Enter String
Number #";x
910 INPUT x$
920 LET a$(x) = x$
930 PRINT
940 NEXT x
950 END DEFINE get_all

```

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